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1 The Evaluation of Large, Complex UML Analysis and Design Models

Brian Berenbach

May 2004 **Proceedings of the 26th International Conference on Software Engineering ICSE '04**

Publisher: IEEE Computer Society

Full text available: pdf(309.46 KB) Additional Information: full citation, abstract, citings, index terms

This paper describes techniques for analyzing largeUML models. The first part of the paper describesheuristics and processes for creating semantically correctUML analysis and design models. The second part of thepaper briefly describes the internal DesignAdvisorresearch tool that was used to analyze Siemens models.The results are presented and some interestingconclusions are drawn.

2 Experience papers: using metrics: Metrics for model driven requirements development

Brian Berenbach, Gail Borotto

May 2006 **Proceeding of the 28th international conference on Software engineering ICSE '06**

Publisher: ACM Press

Full text available: pdf(283.11 KB) Additional Information: full citation, abstract, references, index terms

The CMMI defines two process areas associated with requirements elicitation: Requirements Development (RD) and Requirements Management (REQM). The Measurements and Analysis process area (MA) requires measurements and quantitative objectives for RD and REQM, but nowhere does it state what those measurements are. Furthermore, in order to extract measurements and evaluate them, a process must enable or otherwise support the taking of measurements. It is especially difficult to do this during requir ...

Keywords: UML, analysis, metrics, modeling, requirements engineering

3 How use case modeling policies have affected the success of various projects (or how to improve use case modeling)

Periannan Chandrasekaran

January 1997 **Addendum to the 1997 ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications (Addendum) OOPSLA '97**

Publisher: ACM Press
Full text available: pdf(478.89 KB) Additional Information: full citation, references, citings, index terms

4 Practitioner reports: Comparison of UML and text based requirements engineering ☐

Brian A. Berenbach
October 2004 **Companion to the 19th annual ACM SIGPLAN conference on Object-oriented programming systems, languages, and applications OOPSLA '04**
Publisher: ACM Press
Full text available: pdf(525.72 KB) Additional Information: full citation, abstract, references, index terms

There appears to be a real dichotomy in the use of the UML vs. text based Use Case development for requirements elicitation and documentation, that is, on those projects where use cases are work products. Not only are there different processes in place for text and graphical use case modeling, but also there are a variety of approaches and philosophies in each camp. This paper will discuss the prose vs. graphical approaches to requirements elicitation, observed advantages and disadvantages of ...

Keywords: UML, analysis, process, requirements

5 Toward an engineering discipline for grammarware ☐

Paul Klint, Ralf Lämmel, Chris Verhoef
July 2005 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 14 Issue 3
Publisher: ACM Press
Full text available: pdf(710.42 KB) Additional Information: full citation, abstract, references, citings, index terms

Grammarware comprises grammars and all grammar-dependent software. The term *grammar* is meant here in the sense of all established grammar formalisms and grammar notations including context-free grammars, class dictionaries, and XML schemas as well as some forms of tree and graph grammars. The term *grammar-dependent software* refers to all software that involves grammar knowledge in an essential manner. Archetypal examples of grammar-dependent software are parsers, program converters ...

Keywords: Grammarware, automated software engineering, best practices, generic language technology, grammar-dependent software, grammars, language processing, metamodeling, model-driven development, parsers, software evolution, software transformation

6 Patterns: cult to culture? ☐

Steven Fraser, Grady Booch, Frank Buschmann, Jim Coplien, Norm Kerth, Ivar Jacobson, Mary Beth Rosson
October 1995 **ACM SIGPLAN Notices , Proceedings of the tenth annual conference on Object-oriented programming systems, languages, and applications OOPSLA '95**, Volume 30 Issue 10
Publisher: ACM Press
Full text available: pdf(575.56 KB) Additional Information: full citation, index terms

7 Essential modeling: use cases for user interfaces ☐

Larry L. Constantine
April 1995 **interactions**, Volume 2 Issue 2

Publisher: ACM Press

Full text available: pdf(1.43 MB) Additional Information: full citation, references, citings, index terms, review

8 Software product line engineering: Software product line modeling made practical ☐

Magnus Eriksson, Jürgen Börstler, Kjell Borg

December 2006 **Communications of the ACM**, Volume 49 Issue 12

Publisher: ACM Press

Full text available: pdf(232.73 KB) html(16.69 KB) Additional Information: full citation, abstract, references, index terms

An example from the Swedish Defense Industry.

9 Taking an object-oriented methodology into the real world ☐

Martha Hartman, Frederick W. Jewell, Colin Scott, Deborah Thornton

October 1994 **ACM SIGPLAN OOPS Messenger , Addendum to the proceedings on Object-oriented programming systems, languages, and applications (Addendum) OOPSLA '94**, Volume 5 Issue 4

Publisher: ACM Press

Full text available: pdf(658.59 KB) Additional Information: full citation, references

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